

ABSTRACT

A radar level gauge for measuring the level of a surface of a product stored in a tank by
use of a radar, where said radar transmits microwaves towards said surface and receives
microwaves reflected by said surface and wherein said radar is adapted to transmit and
receive said microwaves within two widely separated frequency bands. Widely
separated frequency bands are chosen to utilize the differences in attenuation due to
foam on the surface and the differences in beam-width or other disturbances. The ratio
between the center frequencies of the two widely separated frequency bands can be
quantified as at least greater than 1.5:1 or preferably greater than 2:1.

10 (Fig. 2)